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Meeting Minutes Transmittal/Approval
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
2440 Stevens Center, Room 1200 Richland, Washington
May 26, 1994

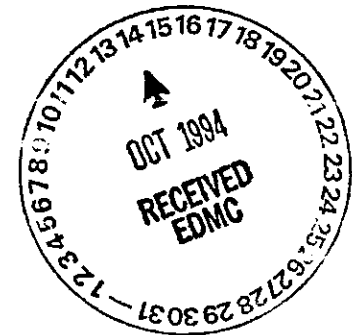
FROM/APPROVAL: *Paul M. Pak* Date 6/30/94
Paul M. Pak, 200 Aggregate Area Unit Manager, RL (A5-19)

APPROVAL: *Paul R. Beaver* Date 6/30/94
Paul R. Beaver, 200 Aggregate Area Unit Manager, EPA (B5-01)

APPROVAL: *Dib Goswami* Date 6/30/94
Dib Goswami, 200 Aggregate Area Unit Manager, WA Dept of Ecology

Meeting Minutes are attached. Minutes are comprised of the following:

- Attachment #1 - Meeting Summary
- Attachment #2 - Attendance Sheet
- Attachment #3 - Agenda
- Attachment #4 - Action Item Status List
- Attachment #5 - 200-BP-5 Operable Unit Status
- Attachment #6 - 200-ZP-1 Pilot Scale Pump and Treat Operational Testing
- Attachment #7 - ERA Status as of 5-24-94



Prepared by: *Kay Kimmel* Date: 6-30-94
Kay Kimmel, Jim Consort GSSC (B1-42)

Concurrence by: *Curt Wittreich* Date: 6/30/94
Curt Wittreich, WHC Coordinator (H6-03)

Attachment #1
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
May 26, 1994

Meeting and Summary of Commitments and Agreements

1. SIGNING OF THE PREVIOUS 200 AREA UNIT MANAGER'S MEETING MINUTES:
Meeting minutes were reviewed and approved with no changes.

2. ACTION ITEM UPDATE. See Attachment 4 for status:

- 2AAMS.13 Open.
- 2AAMS.14 Open. Provide to the regulators a map identifying RCRA and CERCLA, PNL site-wide and Operations wells for the 200 East and 200 West areas.
- 2AAMS.15 Open.
- 2AAMS.16 Open.
- 2AAMS.18 Open.
- 2UP1.1 Open.

3. NEW ACTION ITEMS (INITIATED May 26, 1994):

- 2BP5.1 Revise the existing Description of Work to include the use of the cone penetrometer prior to installation of new wells to better locate extraction and recovery wells.
Action: David Erb.
- 2UP1.2 Develop a treatability test plan for denitrification of 200-UP-1 groundwater at laboratory and bench scales, based on the 100 Area Treatability Test Plan for Nitrate.
Action: Paul Pak.

4. INFORMATION ITEMS:

- Status 200-BP-5 Operable Unit - Dave Erb provided the status of the 200-BP-5 Operable Unit Treatability Test (see Attachment #5). A discussion was held concerning the use of the cone penetrometer for site characterization prior to installation of new wells. This discussion led to assigning Action Item 2BP5.1 to D. Erb.
- Status 200-UP-1 Operable Unit - Curt Wittreich provided an update on the field activities for the 200-UP-1 Operable Unit. He indicated that Well UP-1-2 was complete, Well UP-1-3 is in progress, and the location of Well UP-1-4 will be determined based on the results of well UP-1-3. The criteria used for well installation, sampling and continuation were discussed. A discussion of the 200-UP-1 Treatability Test Plan followed, with agreement that the document should not be finalized until resolution is reached on whether or not to reinject the extracted water.

Action Item 2AAMS.14 regarding a well map for the 200 Areas was revised (see the underlined information in section 3, above).

- Status of 200-ZP-1 - Dan Parker provided the status of the 200-ZP-1 Operable Unit. He indicated that the Waste Control Plan being written would use the lessons learned from the 200-UP-1 pump and treat activities. He also provided a handout (see Attachment #6) which will be presented by Reed Simpson at a later date.
- Carbon Tetrachloride ERA Status - Sean Driggers provided the status of the carbon tetrachloride extraction activities. He indicated that fresh granular activated carbon (GAC) would be available next week. He indicated that the Proposed Plan for cleanup of the carbon tetrachloride plume will include GAC as well as other technologies.
- ERA Activity - Paul Valcich provided an update on all Expedited Response Actions (see Attachment #7).
- Next Meetings - The next meetings are scheduled for June 29 and 30, 1994.

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Attachment #3
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
May 26, 1994

Agenda

200 Area Activities

200-BP-5 - D. Erb

- * General Status
- * Status of treatability test plan, and schedule

200-UP-1 - C. Wittreich

- * General Status
- * Characterization
- * Treatability Studies

200-ZP-1 - D. Parker

- * Status

ERA Activity - P. Valcich

- * Status
- * Carbon Tetrachloride - S. Driggers

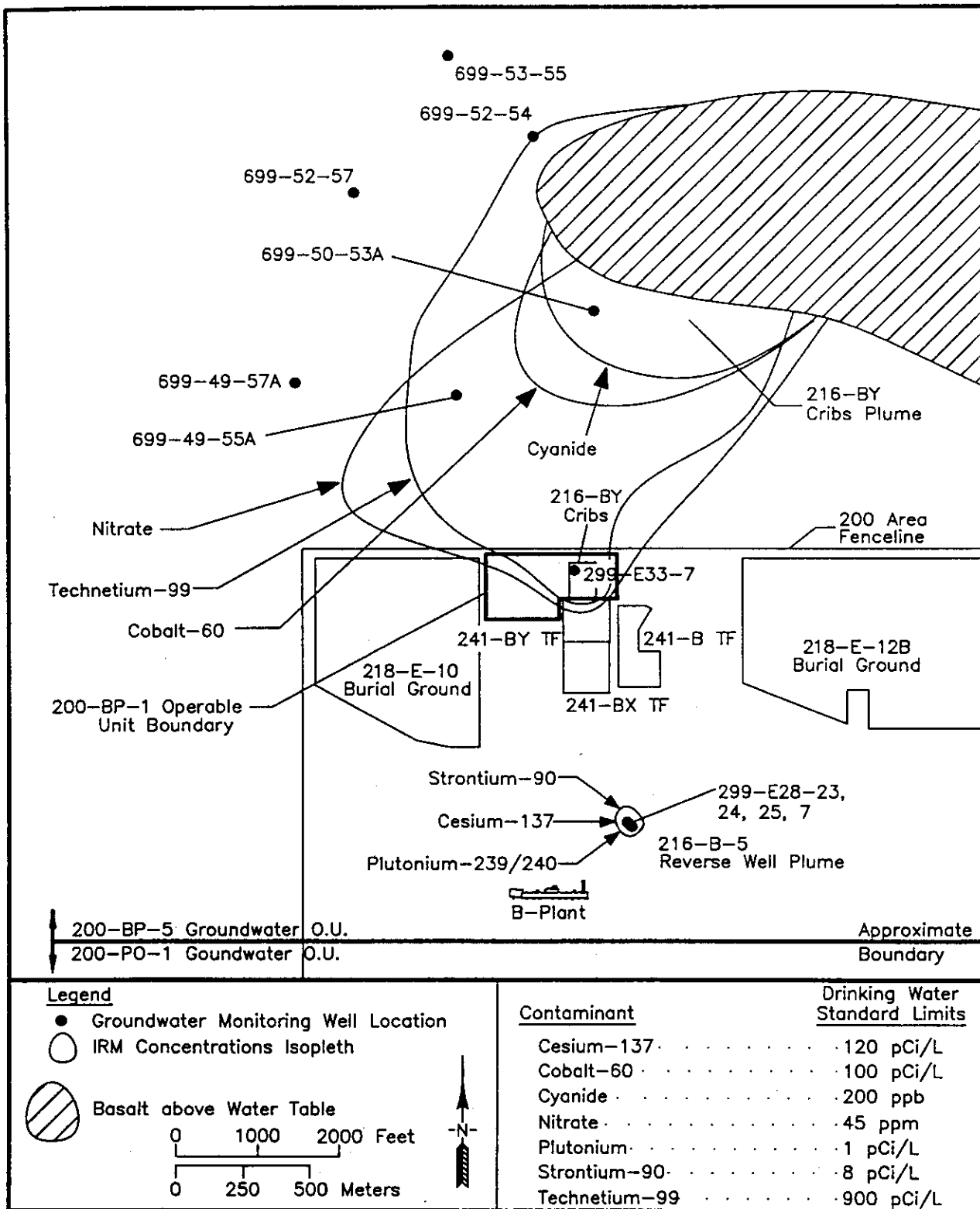
Attachment #4

Action Item Status List
Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
May 26, 1994

ITEM NO.	ACTION	STATUS
2AAMS.13	Transmit the 200-UP-1 and 200-ZP-1 Treatability Test Plans and Mike Connelly's groundwater modeling studies for pump and treat to the regulators. Action: Paul Pak.	Open 03/31/94.
2AAMS.14	Provide to the regulators a map identifying RCRA wells and CERCLA wells for the 200 East and 200 West areas. Action: Paul Pak.	Open 03/31/94.
2AAMS.15	Submit draft dispositions to regulator comments on the 200-BP-5 Treatability Test Plan by April 6. Action: Paul Pak.	Open 03/31/94.
2AAMS.16	Provide a schedule describing activities that are required prior to initiating pilot scale studies in the 200-BP-5 Operable Unit by August 1994. Action: Dave Erb.	Open 03/31/94. Activities are ongoing.
2AAMS.17	Notify attendees of the time and place for the April 6th meeting to discuss the groundwater strategy for the 200-ZP-1 and 200-BP-5 Operable Units. Action: Paul Pak.	Closed 04/28/94.
2AAMS.18	Provide to the regulators a map identifying RCRA and CERCLA wells at 200 West area. Action: Curt Wittreich.	Open 04/28/94.
2UP1.1	Provide a letter within one week to EPA and Ecology regarding the 200-UP-1 Operable Unit pilot-scale treatability test temporary suspension of treatment activities. Action: Paul Pak.	Open 04/28/94.
2UP1.2	Develop a treatability test plan for denitrification of 200-UP-1 groundwater at laboratory and bench scales, based on the 100 Area Treatability Test Plan for Nitrate. Action: Paul Pak.	Open 05/26/94.
2BP5.1	Revise the existing Description of Work to include the use of the cone penetrometer prior to installation of new wells to better locate extraction and recovery wells. Action: David Erb.	Open 05/26/94.

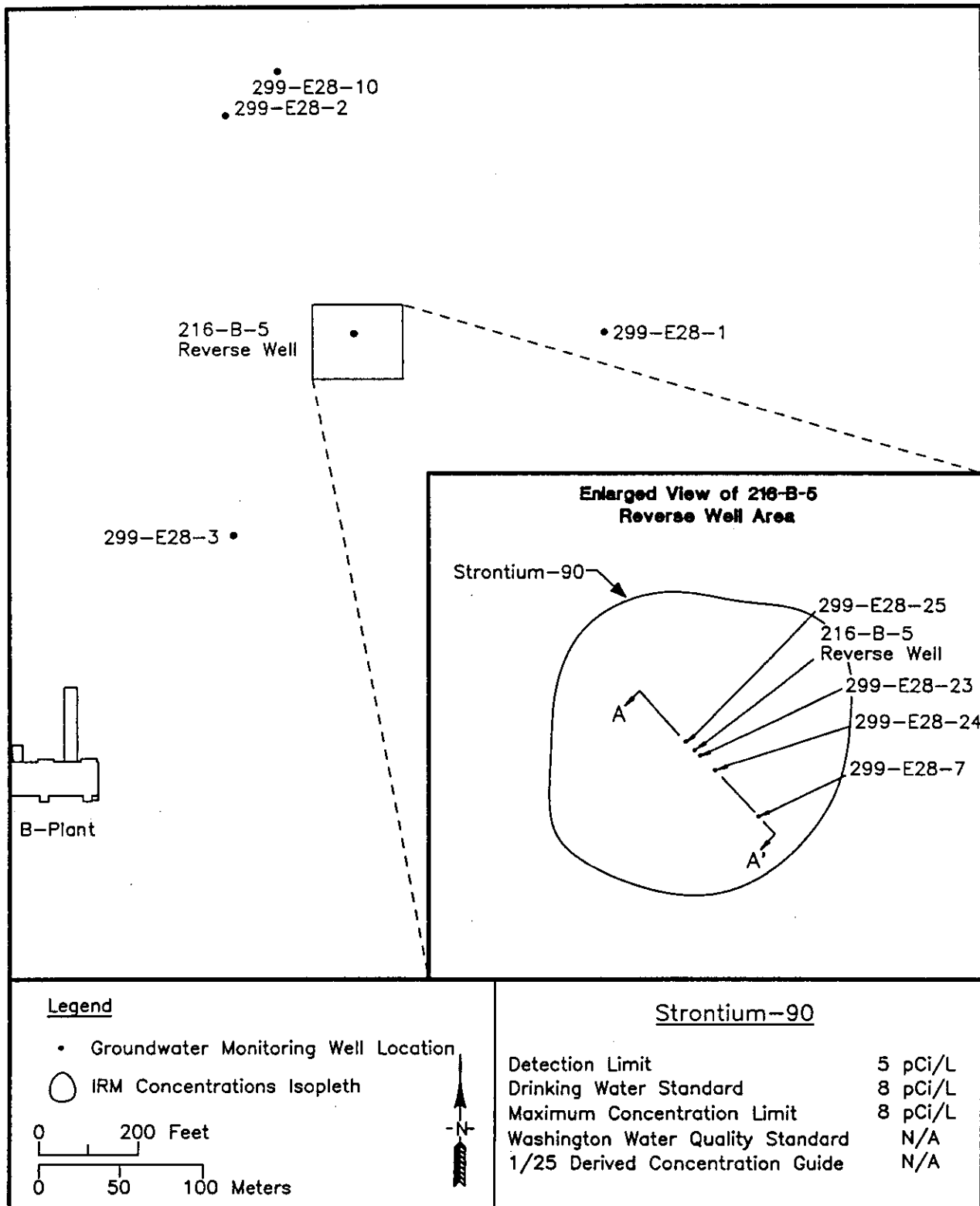
200-BP-5 OPERABLE UNIT STATUS
May 26, 1994
D. B. Erb

- * Well Fitness-for-Use Activities**
 - Well Redevelopment**
 - Production Pump Tests**
- * Drilling DOW and Well Siting.**
- * Groundwater Monitoring Status**
- * Treatability Test Plan**
- * NPL Change Request For 216-BY Cribs Plume**



Source: Ford, (1993)

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Source: Ford, (1993)

GEOSCI\050294A3

200-ZP-1 PILOT SCALE PUMP AND TREAT OPERATIONAL TESTING

PROPOSED EXTRACTION AND INJECTION WELLS

Reed Simpson

**Water Resources Engineering Group
Westinghouse Hanford Company**

May 26, 1994

WELL SELECTION CRITERIA

GENERAL CRITERIA:

- EXISTING WELL
- ACCESSIBILITY
- HIGH CONCENTRATION AREAS OF CARBON TETRACHLORIDE GROUNDWATER PLUME
- MINIMAL IMPACT ON EXISTING PROGRAMS
- EXISTING HYDROLOGIC AND HYDROCHEMICAL DATA
- AVAILABILITY OF MONITORING WELLS
- MINIMAL IMPACT ON OTHER GROUNDWATER PLUMES
- MINIMAL RECIRCULATION POTENTIAL WITHIN SCOPE AND TIME FRAME OF TEST

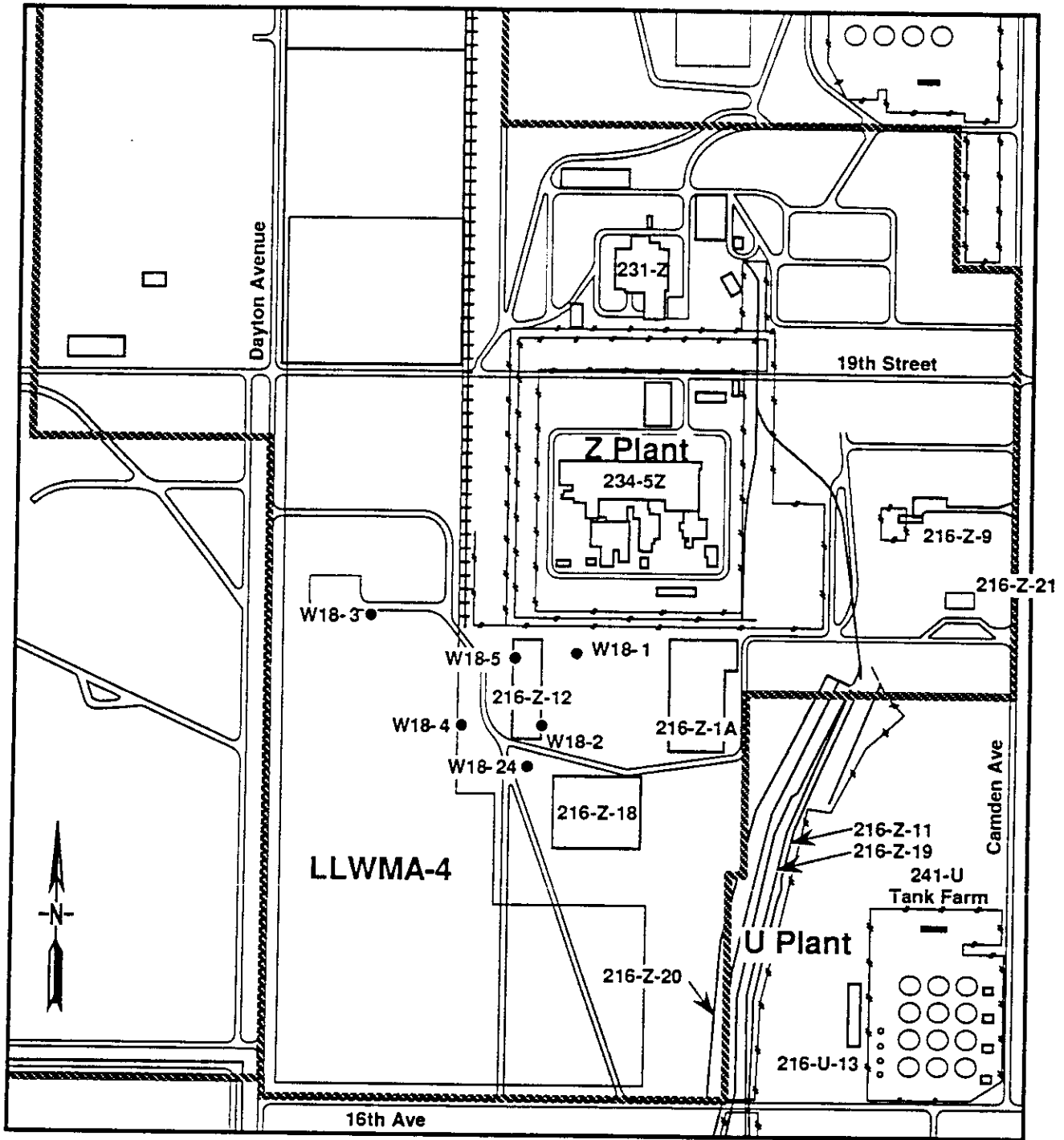
WELL SELECTION CRITERIA

EXTRACTION WELL DESIGN CRITERIA:

- UPPER UNCONFINED AQUIFER (10 m)
- CONCENTRATIONS OF CARBON TETRACHLORIDE >1000 PPB
- CONCENTRATION OF OTHER VOC CONTAMINANTS
- MINIMUM PRODUCTION CAPACITY OF 17 GPM
- SCREENED WELLS GIVEN PREFERENCE OVER PERFORATED WELLS

INJECTION WELL DESIGN CRITERIA:

- UPPER UNCONFINED AQUIFER (10 m) AND/OR VADOSE ZONE BELOW PLIO-PLEISTOCENE UNIT
- GROUNDWATER CONCENTRATIONS OF CARBON TETRACHLORIDE ABOVE PREDICTED EFFLUENT CONCENTRATIONS
- NO CO-CONTAMINANTS IN VADOSE ZONE (I.E., RADS)
- MINIMUM INJECTION CAPACITY OF 17 GPM (30-40 GPM PREFERRED)
- SCREENED WELLS GIVEN PREFERENCE OVER PERFORATED WELLS



RESULTS OF WELL SELECTION SCREENING

WELLS TARGETED FOR EXTRACTION OR INJECTION:

299-W18-1
299-W18-2
299-W18-3
299-W18-4
299-W18-5
299-W18-24

DESIGN CRITERIA ASSESSED BY:

REVIEW OF EXISTING DATA

FIELD SURVEYS

HYDRAULIC TESTING (Step drawdown or constant head Injection)

GROUNDWATER SAMPLING

RESULTS OF WELL SELECTION SCREENING

RECOMMENDED EXTRACTION WELL:

299-W18-1

DESIGN CHARACTERISTICS -

VOC CONCENTRATIONS

Carbon Tetrachloride = 2242 ppb; TCE < 5 ppb; Chloroform = 25 ppb

SATURATED INTERVAL = 154 ft. (perforated); Packed off to isolate upper 10 m of aquifer

PRODUCTION CAPACITY = 9.5 gpm/ft. or 114 gpm over 1/2 the packed off saturated interval

RESULTS OF WELL SELECTION SCREENING

RECOMMENDED INJECTION WELL:

299-W18-4

DESIGN CHARACTERISTICS -

VOC CONCENTRATIONS

**Carbon Tetrachloride = 1954 ppb (increased during purging)
Vapor sampling w/ SeaMist system detected no vapors***

PRESENCE OF CO-CONTAMINANTS IN VADOSE ZONE -

No man-made gamma-emitting rads identified by RLS

SATURATED INTERVAL = 21 ft. (perforated w/ screen liner) 22 ft. of open interval above static water level

INJECTION CAPACITY = 40 gpm w/ 25 ft. of head above static water level*

DISTANCE FROM EXTRACTION WELL = 433 ft.

WELL 299-W18-3 TENTATIVELY IDENTIFIED AS ALTERNATE INJECTION WELL

ERA Status as of 5-24-94

1. Pickling Acid Crib

- Feasibility Study (FS) and Proposed Plan (PP) are going through Regulator reviews.
- Revise FS and PP per comments.
- Public comment period.
- No Further Action Record of Decision.

2. Sodium Dichromate

- Final Assessment Report (FA) and PP are going through the document release cycle.
- Public comment period.
- No Further Action Record of Decision.

3. Riverland

- FA and PP are waiting for the ordnance survey report to finalize the documents.
- Excavated diesel contaminated soil bioremediation is complete per field screening results. Offsite lab samples are being collected for confirmation.

4. River Effluent Pipelines

- Completed a river sonar survey of all the pipes. Preliminary reports mentioned exposed pipes at 100 F.
- The TPA milestone (M-16-80) is for EE/CA release to the Regulators for review and comment by 9-94.

Distribution

**Unit Manager's Meeting: 200 Aggregate Area/200 Area Operable Units
May 26, 1994**

Paul Pak DOE-RL, ERD (A5-19)
Diane Clark DOE-RL, TSD/SSB (A5-55)
Mary Harmon DOE-HQ (EM-442)
Richard Person DOE-HQ (EM-442)

Paul Beaver 200 Aggregate Area Manager, EPA (B5-01)
Brian Drost USGS, Support to EPA
Jeffrey Ross PRC, Support to EPA

Dib Goswami WDOE (Kennewick)
Larry Goldstein WDOE (Lacey)

Lynn Albin Washington Dept. of Health

Curt Wittreich WHC (H6-03)
Mel Adams (Please route to:) WHC (H6-01)
 Rich Carlson WHC (H6-03)
 M.J. Galgoul WHC (H6-03)
L.D. Arnold WHC (B2-35)
Diana Sickie WHC (H6-27)
Chris Widrig (Please route to:) PNL (K1-21)
 Wayne Martin PNL (K1-19)
 Mark Hanson PNL (K1-51)
 Roy Gephart PNL (K1-22)
 Steve Slate PNL (K1-19)
 Joan Keller PNL (K1-21)
 Ben Johnson PNL (K1-78)

Original Sent To: ADMINISTRATIVE RECORD: 200 AAMS Care of EPIC, WHC
(H6-08)

Please inform Kay Kimmel (946-3692) of Mactec/Dames & Moore (B1-42) of deletions or additions to the distribution list.